

FIG. 1

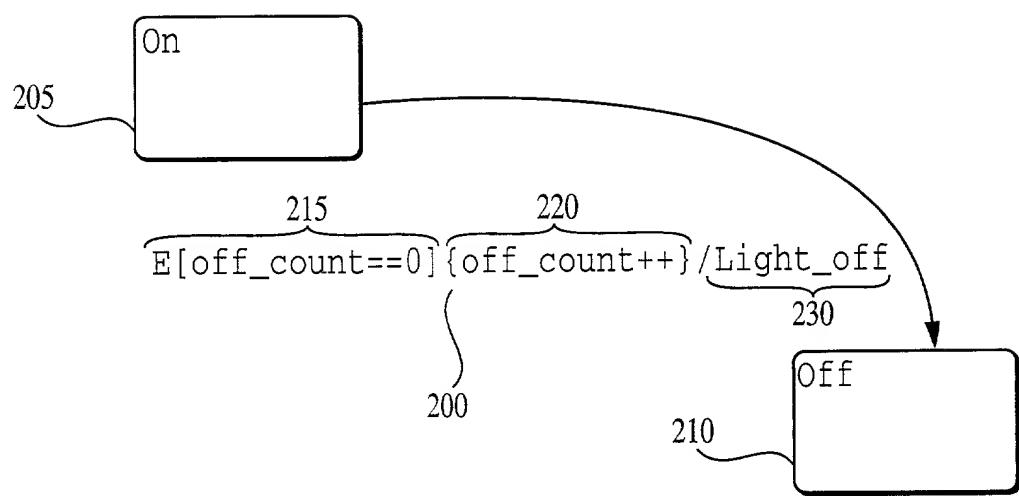


FIG. 2

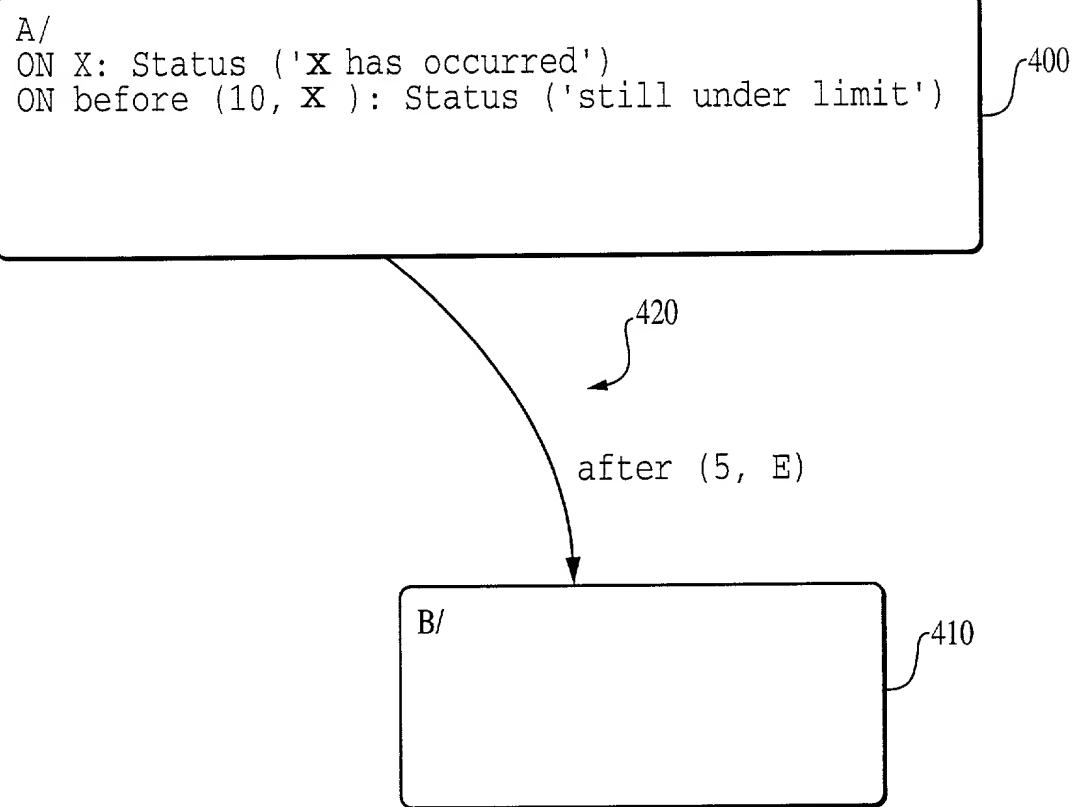


FIG. 3

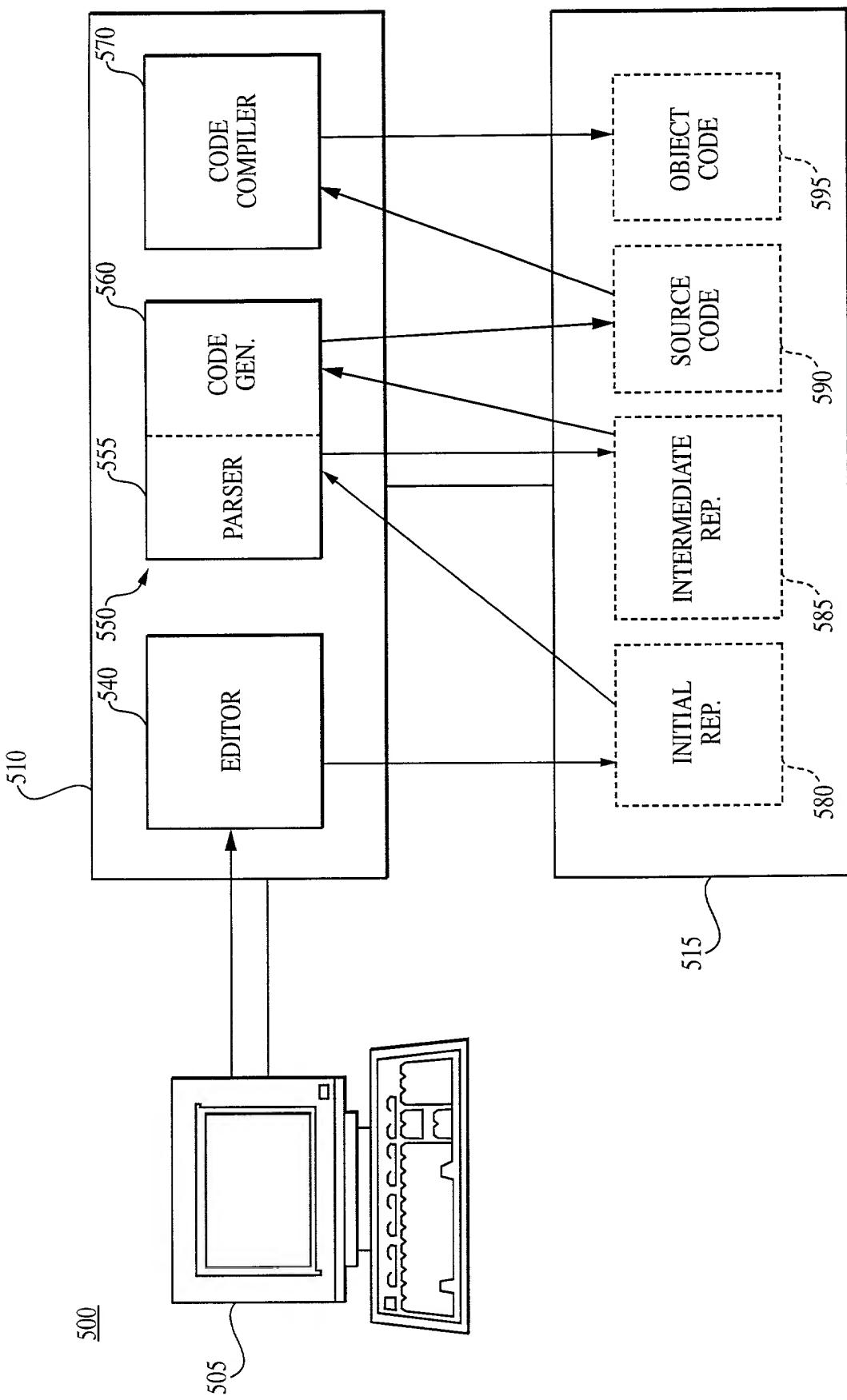


FIG. 4

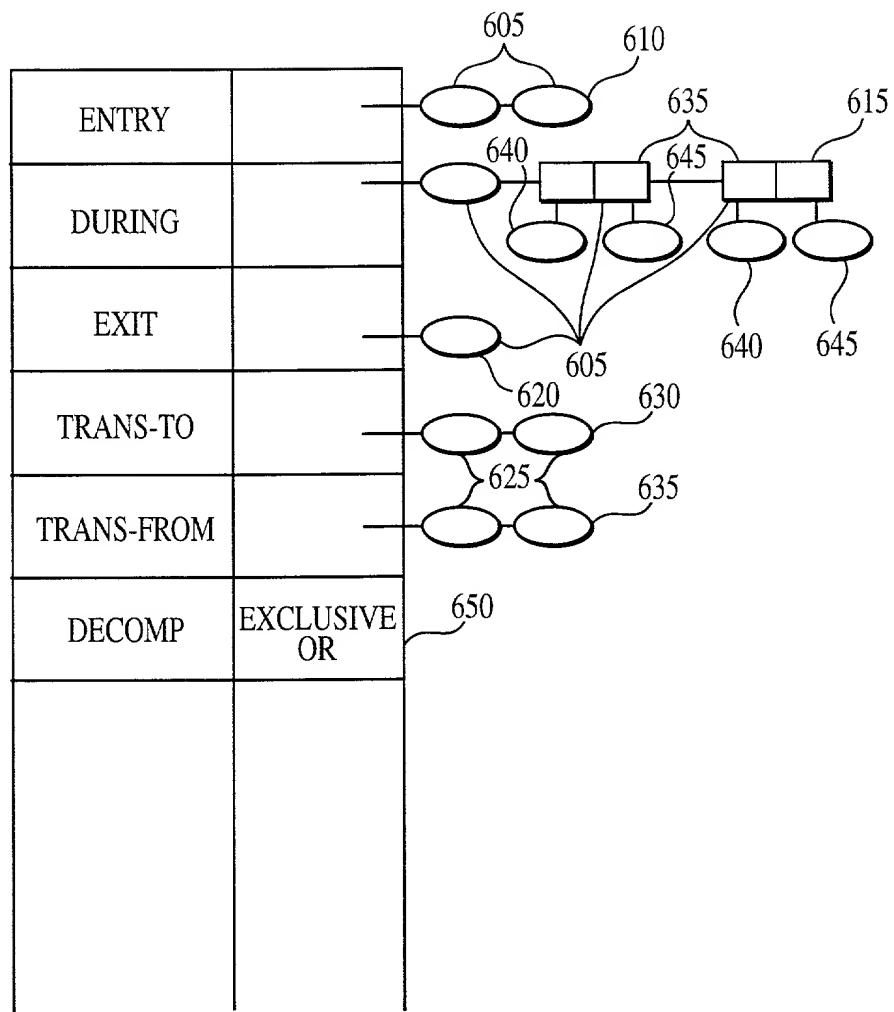


FIG. 5

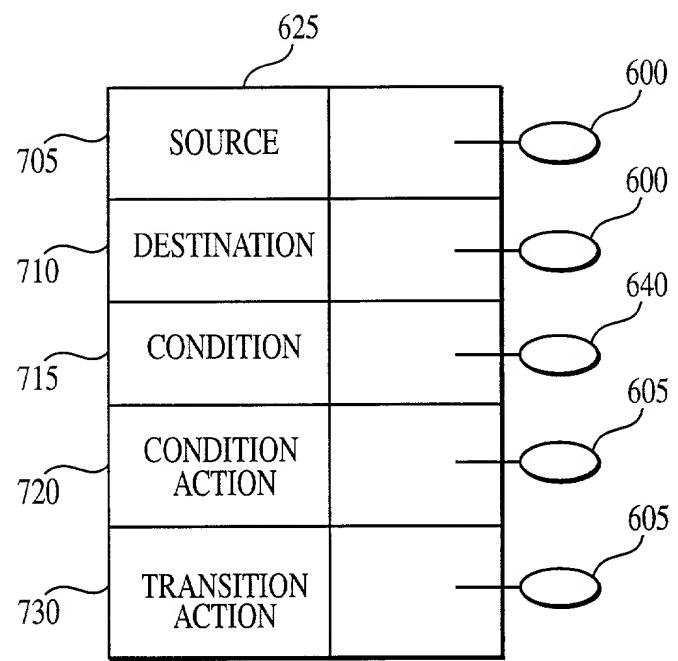


FIG. 6

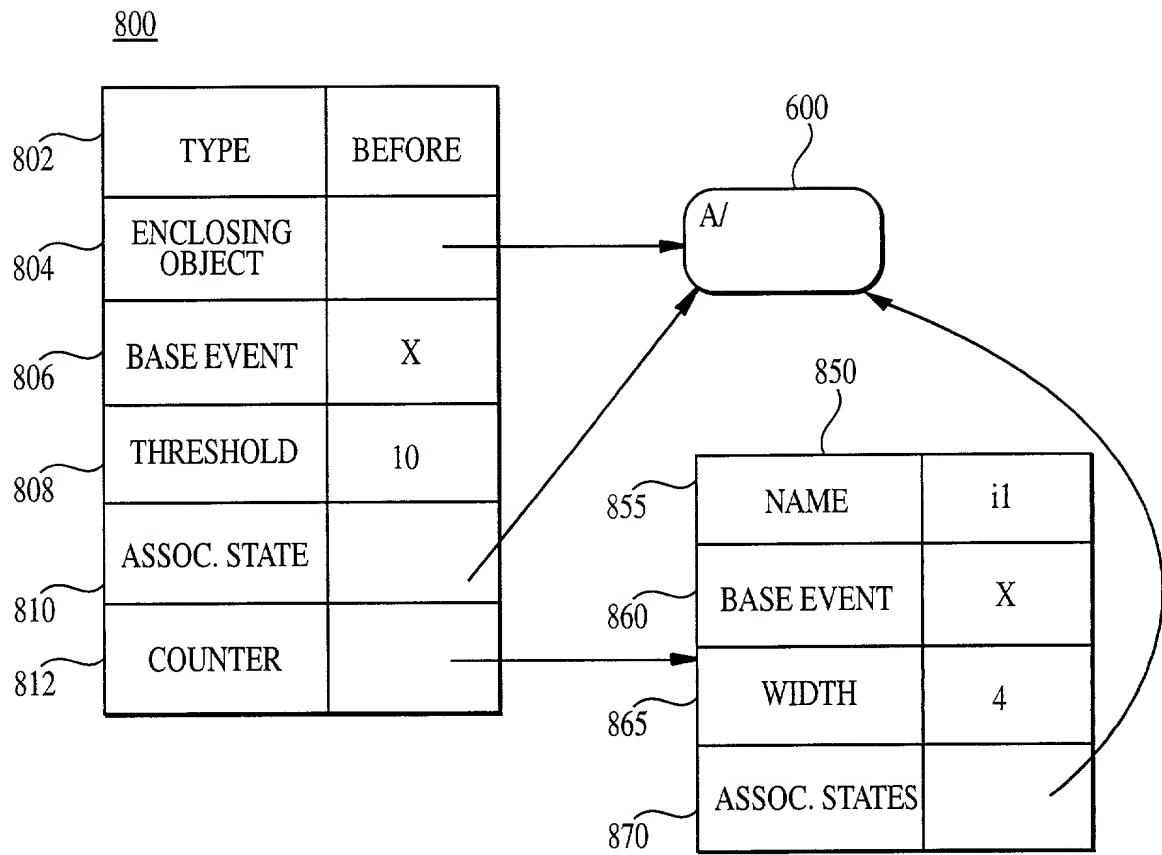


FIG. 7

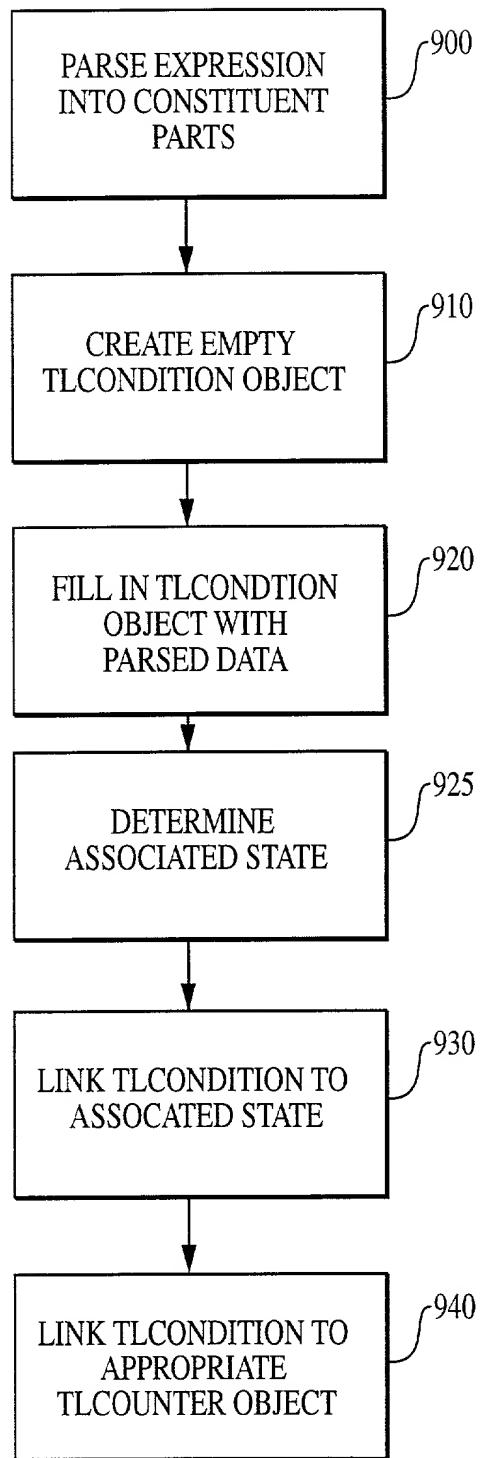


FIG. 8

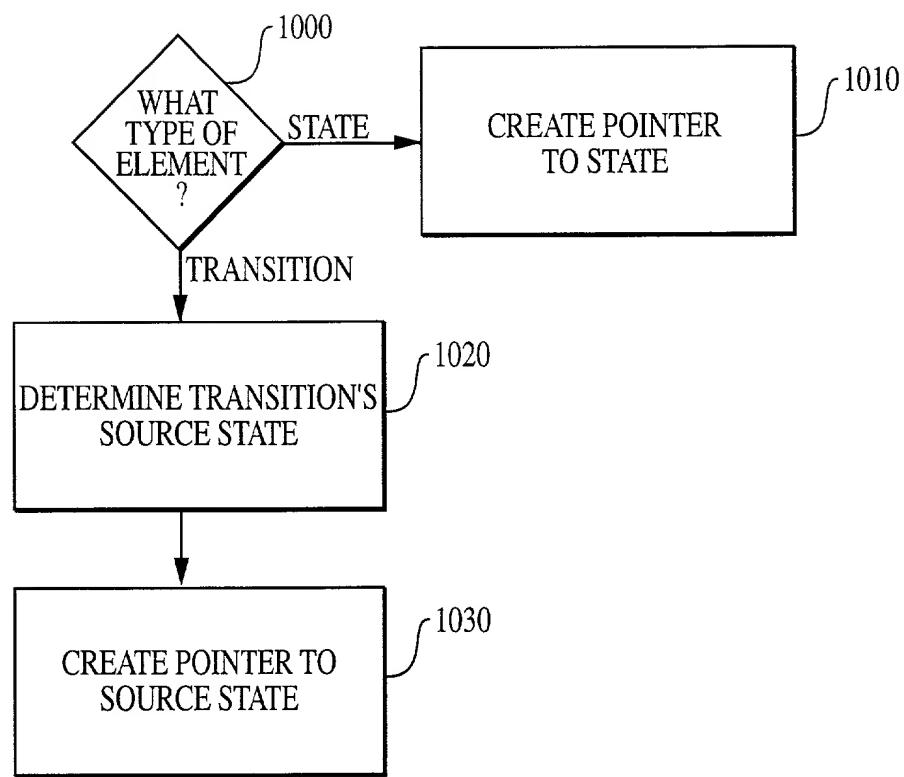


FIG. 9

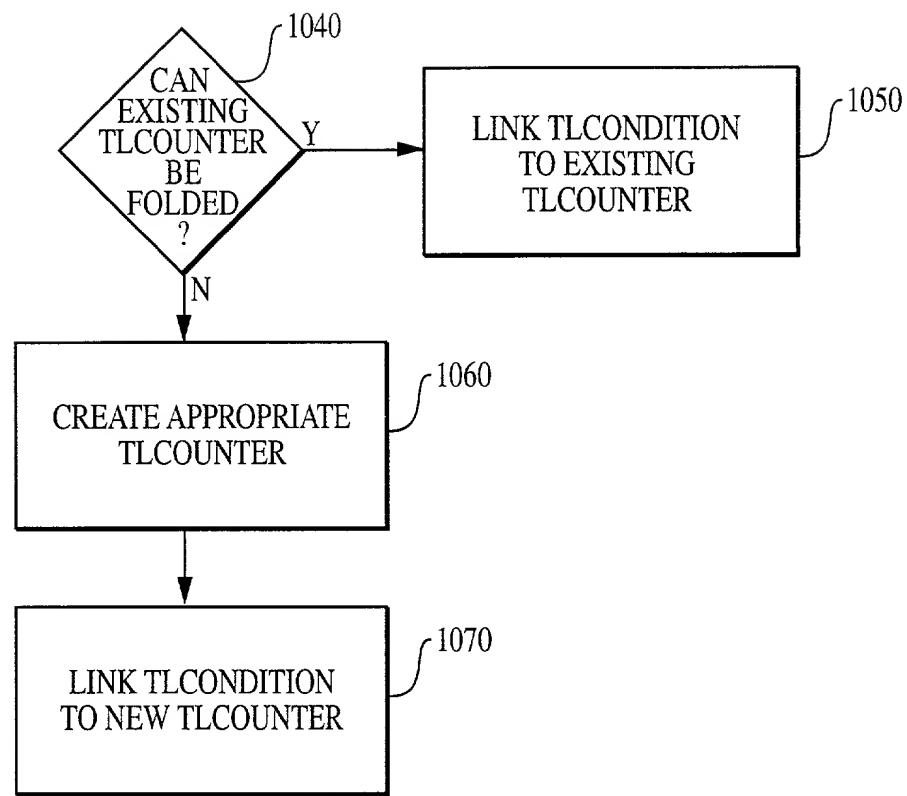


FIG. 10

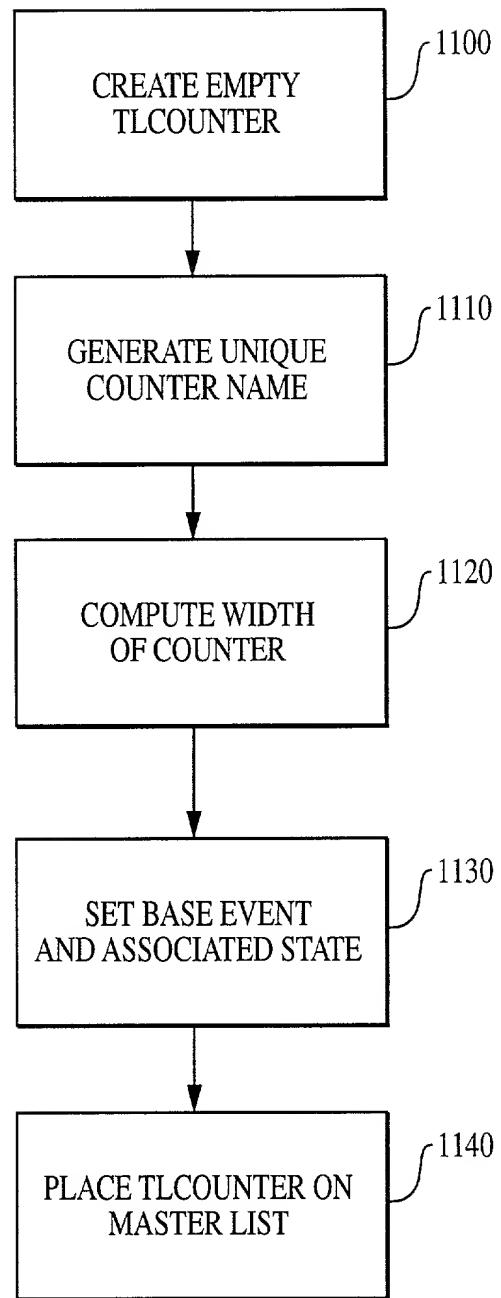


FIG. 11

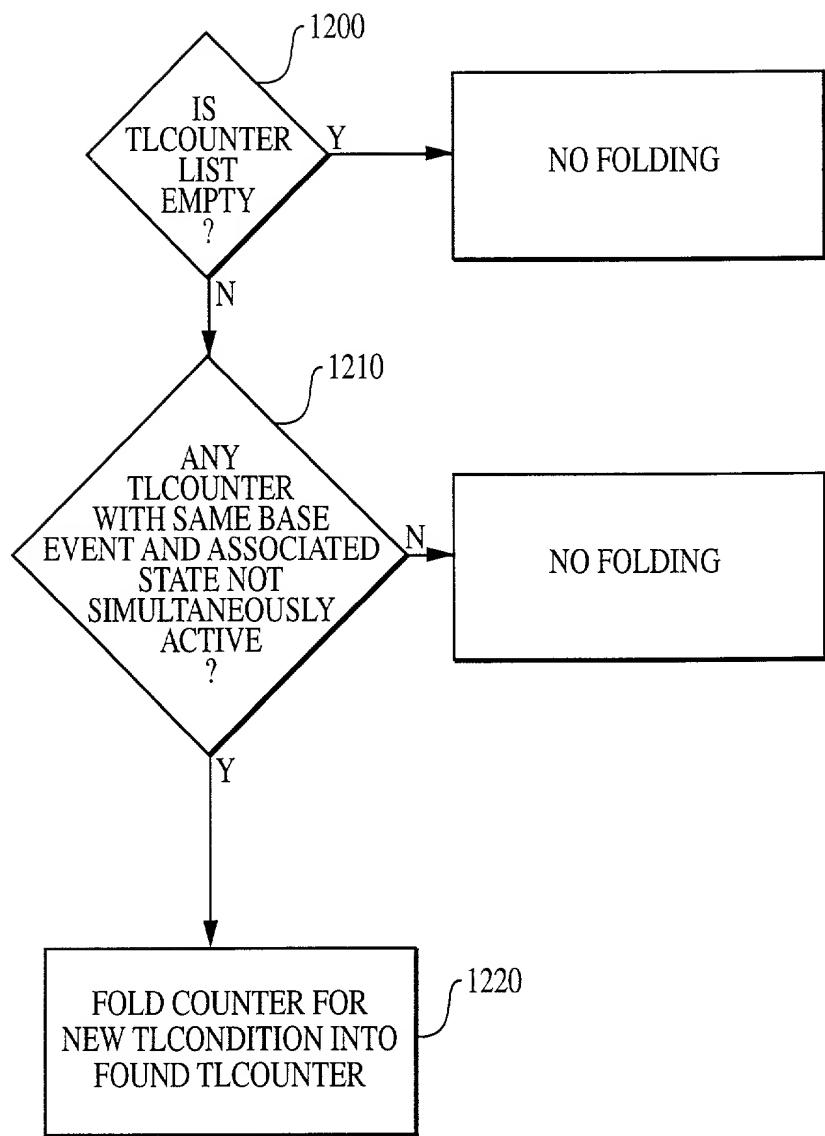


FIG. 12

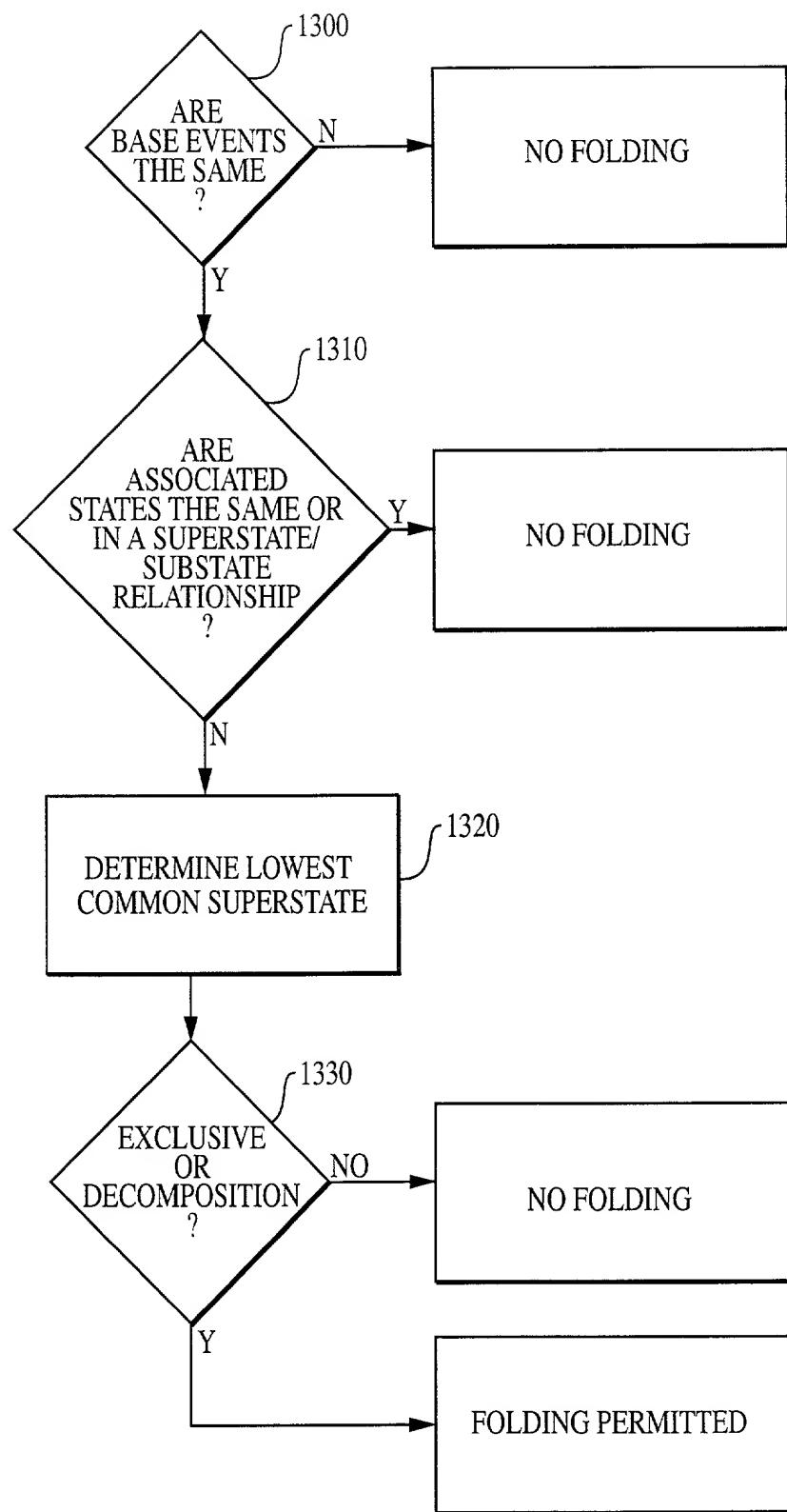


FIG. 13

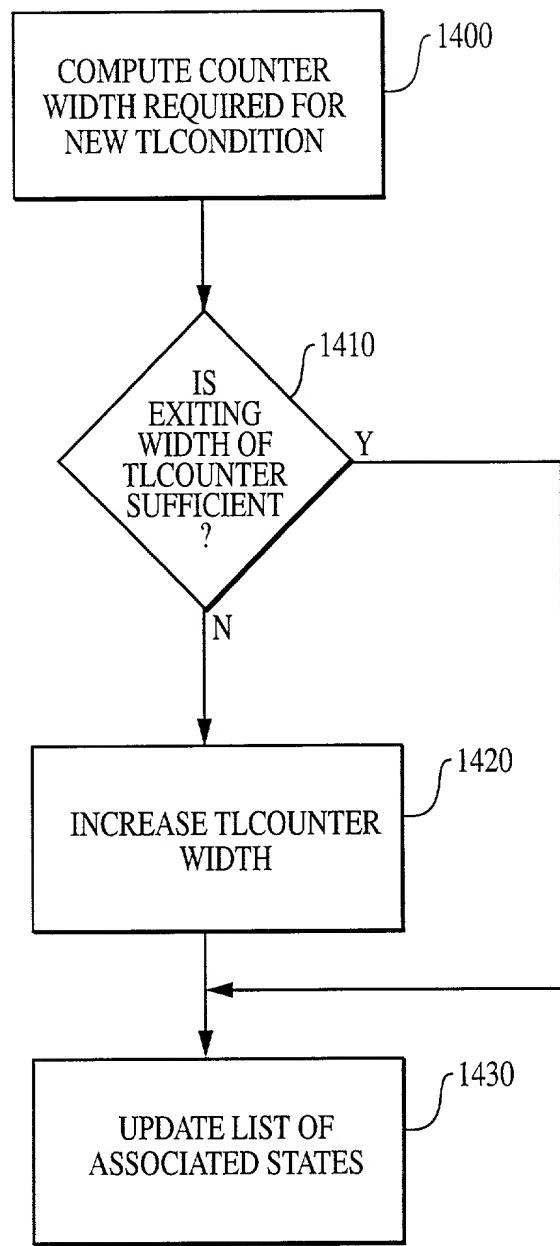


FIG. 14

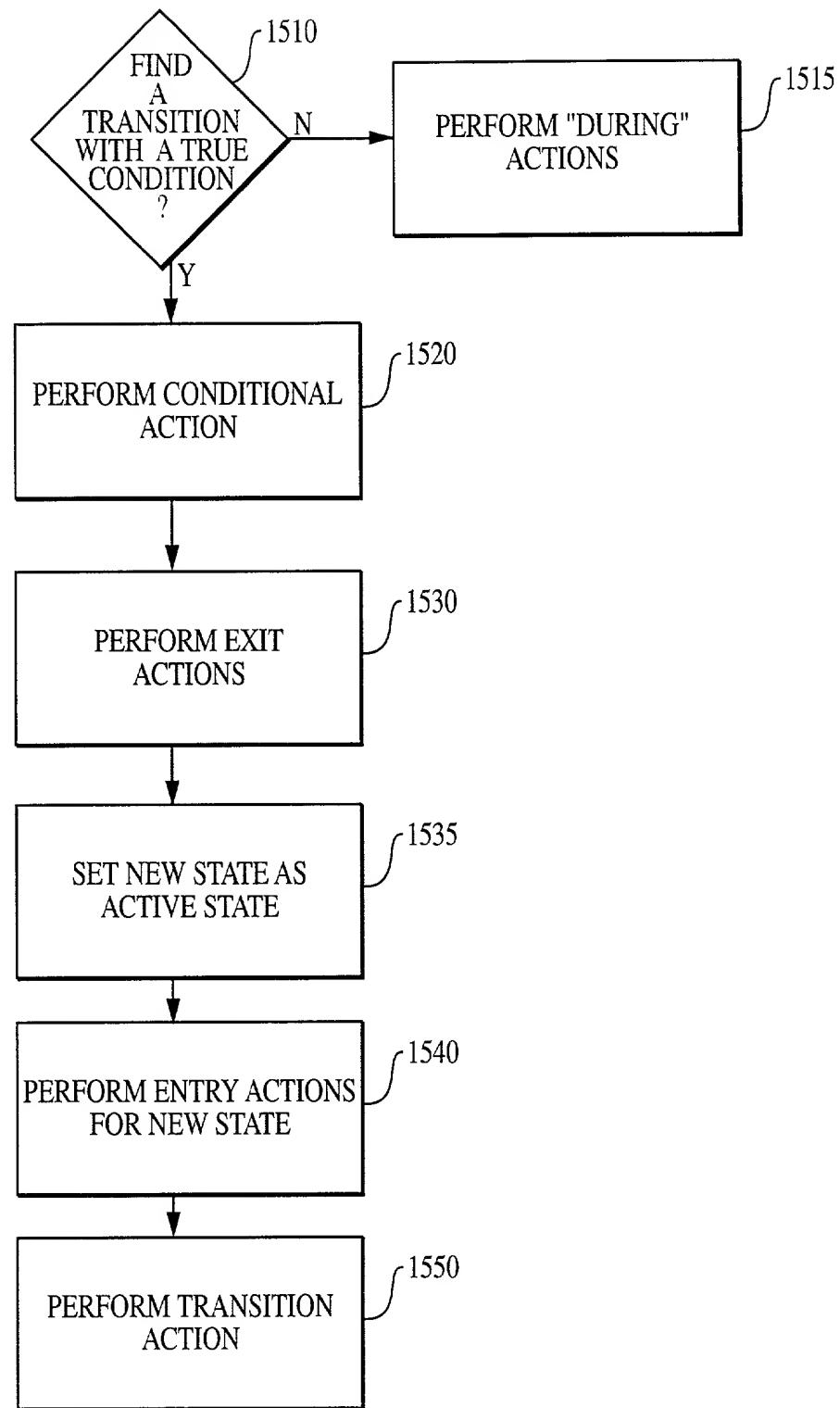


FIG. 15

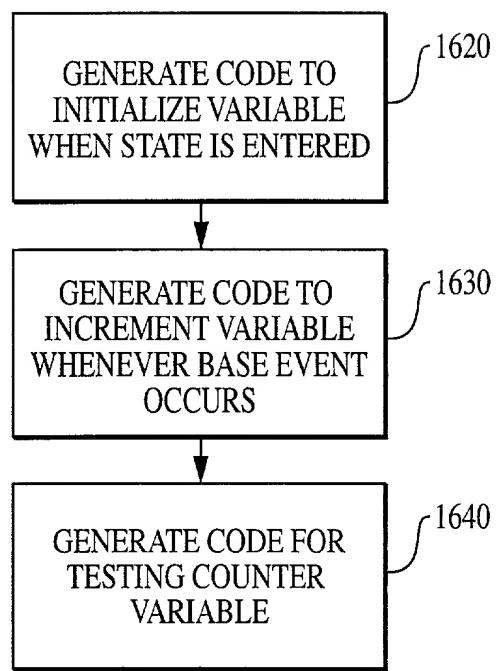


FIG. 16

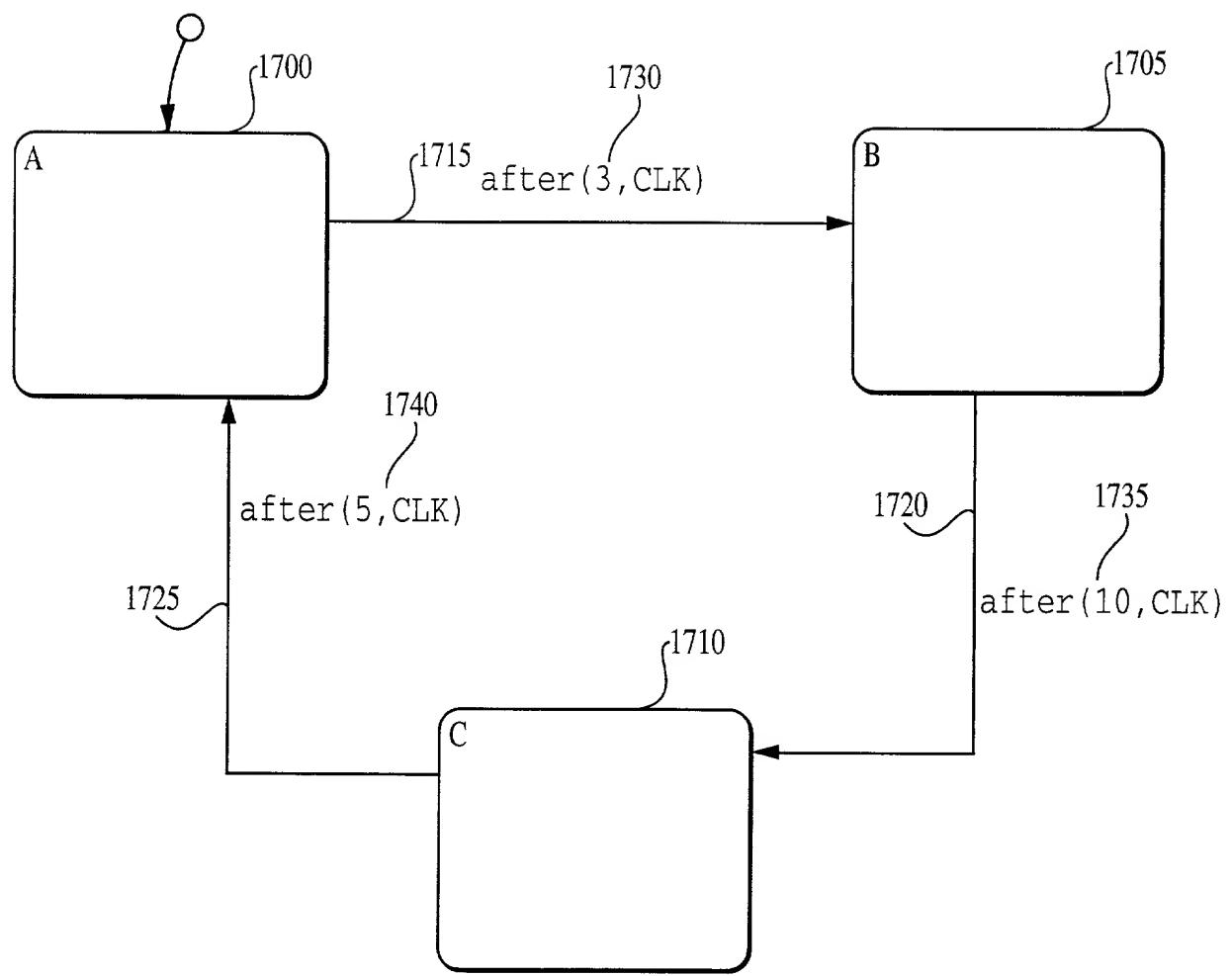


FIG. 17

```

/*
 *
 *
 * Stateflow code generation for chart:
 *     temporal_example/Chart
 *
 * Target Name : target
 * Model Version : 1.188
 * Stateflow Version : 4.0.3.12.00.1.000000
 * Date of code generation : 26-Mar-2001 12:31:13
 *
 */

#ifndef __chart_h__
#define __chart_h__
typedef struct SFchartCounterStruct { } 1800
    unsigned int il : 4;
} SFchartStateStruct;
typedef struct SFchartCounterStruct{ } 1820
    unsigned int is_active_chart : 1;
    unsigned int is_chart : 2;
} SFchartStateStruct;

typedef struct SFchart_InstanceStruct { } 1830
    SFchartCoutnerStruct Counters;
    SFchartStateStruct State;
} SFchartInstanceStruct;

void chart(void); } 1840

/* Input events: */
void broadcast_chart_CLK (void) ; } 1810
#endif

```

FIG. 18

```

*      temporal_example/Chart
*
* Target Name          : target
* Model Version       : 1.188
* Stateflow Version   : 4.0.3.12.00.1.000000
* Date of code generation : 26-Mar-2001 12:31:13
*
*/
#include "temporal_example_target.h"
#include "chart.h"

#define IN_NO_ACTIVE_CHILD          (0)
#define IN_c1_s1_A                  1
#define IN_c1_s2_B                  2
#define IN_c1_s3_C                  3
#define event_CLK                   0
static SFchartInstanceStruct  chartInstance;
void chart(void);

void chart(void)          } 1910
{
{
/* During: Chart */
if(_sfEvent_temporal_example_ == event_CLK)  {
    if(chartInstance.Counters.il<0xFU) {
        chartInstance.Counters.il++;
    }
}
if (chartInstance.State.is_active_chart ==0)  { } 1920
/* Entry: Chart */
chartInstance.State.is_active_chart ==1;
/* Entry: A */
chartInstance.State.is_chart = IN_c1_s1_A;
chartInstance.Counters.il=0;
} else {
1940 } switch(chartInstance.State.is_chart)  {
}

```

FIG. 19A-1

FIG. 19A

FIG.
19A-1

FIG.
19A-2

```
case IN_cl_s1_A:  
  /* During: A */  
  if({_sfEvent_temporal_example_ == event_CLK) &&  
    (chartInstance.Counters.il >= 3)) {  
    /* Exit: A */  
    /* Entry: B */  
    chartInstance.State.is_chart = IN_cl_s2_B;  
    chartInstance.Counters.il=0;  
  }  
  break;  
case IN_cl_s2_B:  
  /* During: B */  
  if({_sfEvent_temporal_example_ == event_CLK) &&  
    (chartInstance.Counters.il >= 10)) {  
    /* Exit: B */  
    /* Entry: C */  
    chartInstance.State.is_chart = IN_cl_s3_C;  
    chartInstance.Counters.il=0;  
  }  
  break;
```



FIG. 19A-2

```
break;
case IN_cl_s3_C:
    /*During: C */
    if(( _sfEvent_temporal_example_ == event_CLK) &&
       (chartInstance.Counters.il >= 5)) {
        /* Exit: C */
        /* Entry: A */
        chartInstance.State.is_chart = IN_cl_s1_A;
        chartInstance.Counters.il=0;
    }
    break;
}
}
}

void broadcast_chart_CLK (void)
{
{
    int8_T previousEvent;
    previousEvent = _sfEvent_temporal_example_;
    _sfEvent_temporal_example_ = event_CLK;
    chart();
    _sfEvent_temporal_example_ = previousEvent;
}
}
```

FIG. 19B

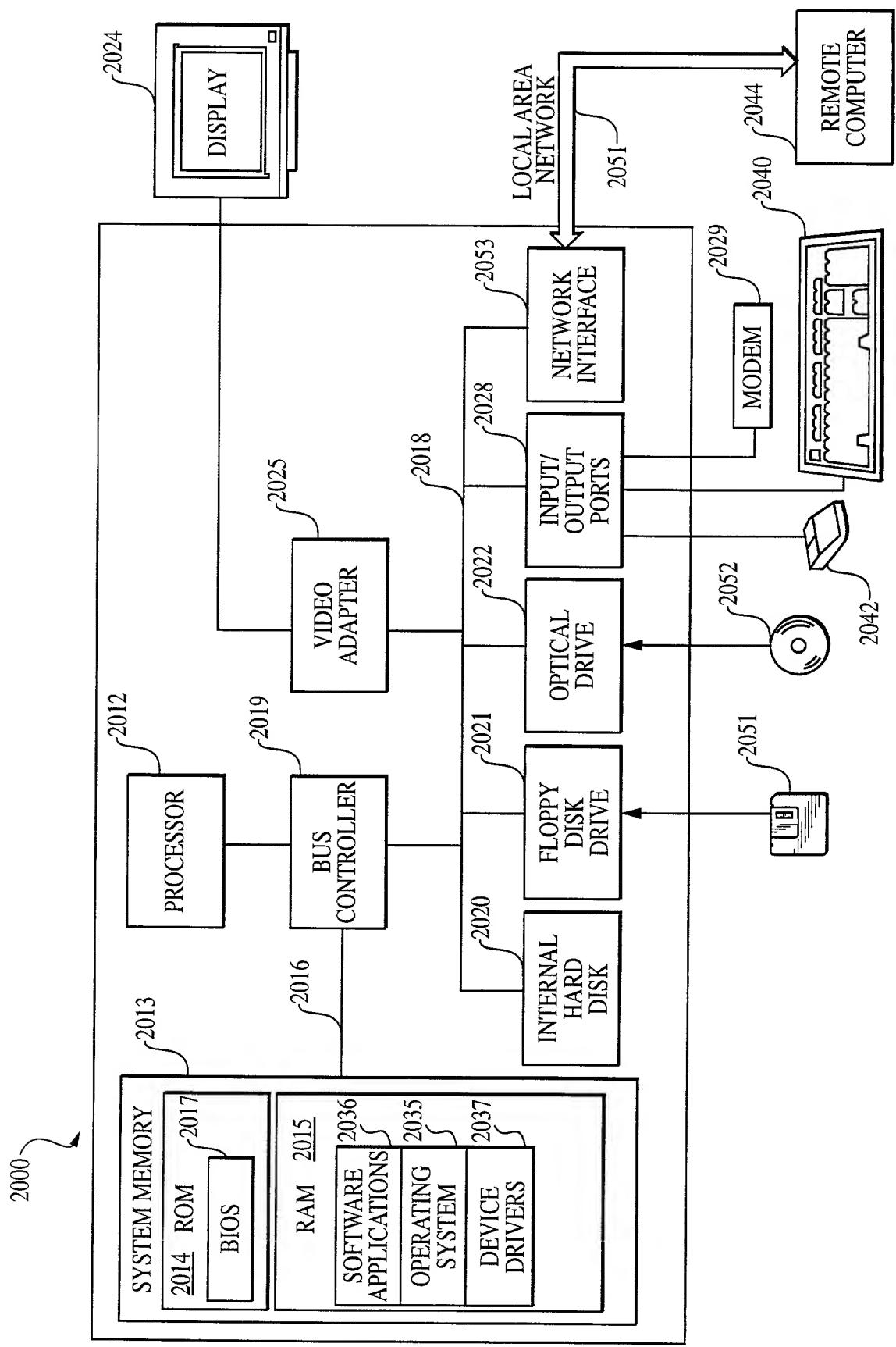


FIG. 20